

MATHEMAITCS PAPER
CLASS SIX
2015

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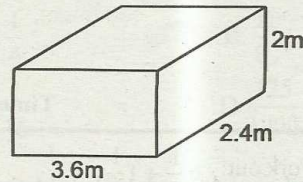
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MATHEMATICS

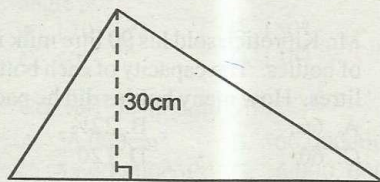
Time: 2 hours

1. Write five million, five hundred and five thousand and fifty in numerals?
A. 5 050 550 B. 5 505 500
C. 5 505 050 D. 5 055 050
2. What is the place value of digit 4 in the product of 16.3 and 15.2?
A. Hundredth B. Thousands
C. Hundreds D. Tens
3. The area of a square plot is 961m^2 . Find the perimeter of a square plot
A. 124m B. 31m
C. 62m D. 961m
4. What is the next number in the sequence below?
9, 16, 25, 36, _____
A. 54 B. 49
C. 42 D. 64
5. Round off 68.7931 correct to 2 decimal places
A. 68.793 B. 68.8
C. 70.00 D. 68.79
6. What is the total value of digit 8 in the number 37.183?
A. 0.08 B. 37.18
C. 0.8 D. 0.008
7. Remove the bracket and simplify $5(5t+3m) + 2(3t-5m)$
A. $31t - 5m$ B. $31t + 5m$
C. $31t + 25m$ D. $31t - 25m$
8. Arrange the following fractions in an ascending order
 $\frac{4}{5}, \frac{17}{20}, \frac{2}{3}, \frac{3}{4}$
A. $\frac{2}{3}, \frac{3}{4}, \frac{17}{20}, \frac{4}{5}$ B. $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{17}{20}$
C. $\frac{2}{3}, \frac{4}{5}, \frac{3}{4}, \frac{17}{20}$ D. $\frac{17}{20}, \frac{4}{5}, \frac{3}{4}, \frac{2}{3}$
9. Work out: $6\frac{1}{4} \div 1\frac{1}{4}$
A. $3\frac{3}{4}$ B. $2\frac{1}{2}$
C. $6\frac{1}{8}$ D. 5
10. What is the sum of LCM of 12, 18, and 24 and GCD of 36, 48 and 60?
A. 72 B. 60
C. 84 D. 96
11. Work out $9.623 + 6.1 + 10 + 0.24$
A. 25.963 B. 19.323
C. 16.523 D. 28.343
12. The radius of a circle is 14cm. What is its circumference?
A. 176cm B. 44cm
C. 22cm D. 88cm
13. Write 0.25 as a percentage
A. 0.25% B. 2.5%
C. 25% D. 250%
14. What is the square root of 576?
A. 16 B. 26
C. 24 D. 34
15. It takes 30 minutes to dry a trouser on a cloth line. How long will 10 trousers take to dry on a clothline?
A. 30 minutes B. 3 minutes
C. 60 minutes D. 300 minutes
16. Mr. Kiprotich sold his 90 litre milk in form of bottles. The capacity of each bottle is $\frac{3}{4}$ litres. How many bottles did he pack?
A. 66 B. $22\frac{1}{2}$
C. 60 D. 120

17. The figure below shows a rectangular tank.



- A. 4320/ B. 17280/
C. 432/ D. 1728/
18. What is 25% of 800?
A. 100 B. 400
C. 2000 D. 200
19. On a map 1cm represent 500m. What is the drawing length of a road measuring 15km?
A. 30cm B. 3cm
C. 300cm D. 3000cm
20. Which of the following fraction will give a recurring decimal?
A. $\frac{17}{20}$ B. $\frac{3}{11}$
C. $\frac{3}{8}$ D. $\frac{15}{16}$
21. Munene left Meru at 11.15 am and arrived at Nairobi at 4.15pm. How far is Meru from Nairobi if he travelled at a speed of 80km/hr?
A. 100km B. 800km
C. 200km D. 400km
22. The figure below is a triangle whose area is 675cm^2 and the height is 30cm.



Find the length of the base

- A. 45cm B. 90cm
C. 50cm D. 60cm

23. Dorcas went to buy items from the shop as follows:

2kg of sugar @ sh. 110

2½kg of rice @ sh. 80

1kg tea leaves @ sh. 150

2 bars of soap for sh. 200

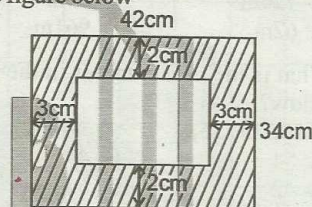
If she had sh. 1000 to pay for the items, how much should she add to be given a balance of sh. 250?

- A. Sh. 70 B. Sh. 50
C. Sh. 20 D. Sh. 30

24. In a parents meeting, 30% of the people who attended were men, if there were 120 men, how many people attended the meeting?

- A. 280 B. 360
C. 400 D. 480

25. Calculate the area of the shaded region in the figure below



- A. 1080cm^2 B. 348cm^2
C. 288cm^2 D. 1428cm^2

26. Kimonda bought the bicycle for sh. 5000 and later sold it for sh. 4000. Calculate his percentage loss.

- A. 25% B. 20%
C. 10% D. 50%

27. A rectangular plot measures 550m by 400m. Calculate the area of the plot in hectares.

- A. 2.2 ha B. 220 ha
C. 22 ha D. 2200 ha

28. Solve the value of t

$$3(4t-2)=30$$

- A. 4 B. 2
C. 5 D. 3

29. Tony spent $\frac{1}{4}$ of his salary on paying school fees for his children, $\frac{1}{3}$ of his salary on rent, $\frac{1}{5}$ of the remainder on food and saved the rest. If he saved sh. 4000, how much does he earn in a month?

- A. Sh. 16,000 B. Sh. 12,000
C. Sh. 20,000 D. Sh. 30,000

30. What is the product of faces and vertices of an open cuboid?

A. 48 B. 40
C. 60 D. 72

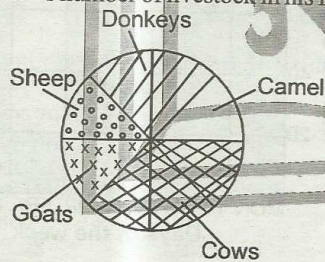
Use the postal rate below to answer the questions that follows:

LETTER	COMMISSION
Not over 20g	12.00
Not over 50g	21.00
Not over 100g	35.00
Not over 250g	49.00
Not over 500g	72.00
Not over 1kg	96.00

31. Cathreen sent four letters weighing 15g, 86g, 750g and 115g. How much did she pay altogether?

A. Sh. 118.00 B. Sh. 172.00
C. Sh. 192.00 D. Sh. 215.00

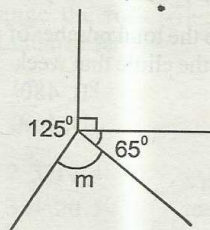
32. The circle graph below represents Kiprotich's number of livestock in his farm.



If he had 360 animals, how many more cows did he have than donkeys?

A. 90 B. 45
C. 135 D. 180

33. Find the size of angle marked m



A. 70° B. 90°
C. 60° D. 80°

34. Use the symbols $>$, $<$, $=$, or \geq to complete the statement below.

A week _____ 180 hours.

A. \geq B. $=$
C. $<$ D. $>$

35. Work out:

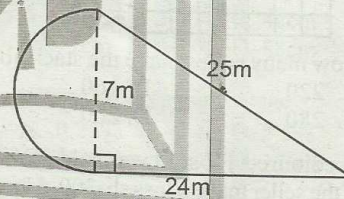
$$\begin{array}{r} \text{M} \quad \text{Cm} \\ 18 \quad 16 \\ \times \quad 15 \\ \hline \end{array}$$

A. 280 B. 272
C. 260 D. 270

36. What is the sum of prime numbers between 20 and 30?

A. 125 B. 73
C. 52 D. 91

37. Find the perimeter of the figure below



A. 50m B. 67m
C. 71m D. 60m

38. Three bells ring at intervals of 20 minutes, 30 minutes and 40 minutes. If they ring together at 10.00 am, when had they rang together?

A. 8.00am B. 12.00pm
C. 11.00am D. 1.00pm

39. Add

$$\begin{array}{r} \text{Weeks} \quad \text{days} \\ 8 \quad 5 \\ + 2 \quad 6 \\ \hline \end{array}$$

A. 10 weeks 11 days
B. 10 weeks 4 days
C. 11 weeks 4 days
D. 11 weeks 1 day

40. Express 0.125 as a fraction to the simplest form

A. $\frac{1}{4}$ B. $\frac{1}{8}$
C. $\frac{1}{16}$ D. $\frac{125}{1000}$

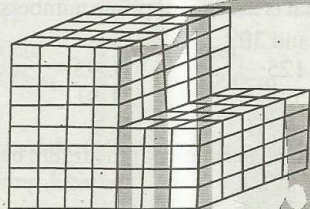
41. The table below shows the number and type of vehicle passed near Hekima primary school.

Type of vehicle	Buses	Lorries	Nissans	Cars	Pickups
Number	12	13	8	7	10

What was the mean number of vehicles?

A. 8 B. 7
C. 12 D. 10

42. Below is a stack of cube



How many cubes make the stack above?

A. 220 B. 160
C. 280 D. 200

43. A coloured TV sold was sold at sh. 4500. If the seller made a loss sh. 300. How much had he bought the TV?

A. Sh. 4,200 B. Sh. 4,800
C. Sh. 5,100 D. Sh. 4,000

44. Calculate the speed in m/s of a car travelling at a speed of 36km/hr?

A. 20m/s B. 30m/s
C. 36m/s D. 10m/s

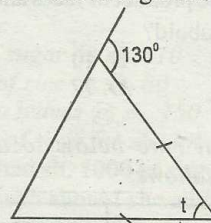
45. What is the suppliment and compliment of angle 50° ?

A. 170° B. 150°
C. 40° D. 130°

46. Convert $5\frac{3}{4}m^3$ into cm^3 .

A. 56,000 cm^3 B. 560,000 cm^3
C. 5,600,000 cm^3 D. 56,000,000 cm^3

47. Find the value of angle t in the figure below

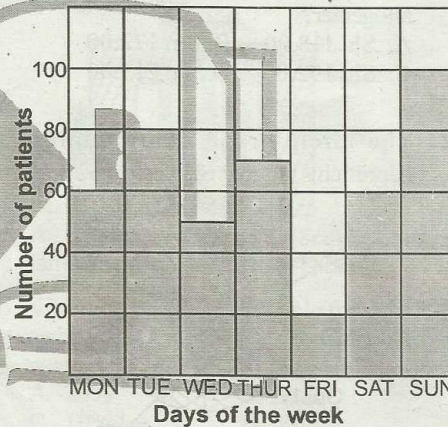


A. 50° B. 80°
C. 70° D. 60°

48. The cost of 8kg of sugar is sh. 960. What is the cost of 2kg of sugar?

A. Sh. 240 B. Sh. 120
C. Sh. 360 D. Sh. 480

The graph below shows the number of patient who attended clinics in a certain week. Use it to answer the questions 49 and 50.



49. Which two days had the same number of patients?

A. Wednesday and Saturday
B. Monday and Thursday
C. Tuesday and Sunday
D. Monday and Saturday

50. Calculate the total number of patients who attended the clinic that week

A. 450 B. 480
C. 440 D. 460